ERP02.001APC SEQLIST.TXT

SEQUENCE LISTING

<110> Brownlie, Joyn
      Chalker, Victoria Jane
      Erles, Kerstin

<120> VACCINE COMPOSITION FOR VACCINATING DOGS
   AGAINST CANINE INFECTIOUS RESPIRATORY DISEASE (CIRD)

<130> ERP02.001APC

<150> PCT/GB2004/002865
<151> 2004-07-01

<150> GB 0315326.6
<151> 2003-07-01

<160> 10

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 218
<212> DNA
<213> Chlamidophila

<400> 1
agtggtctcc ccagattcag actaggtttc acgtgcctag ccctactcag gtatcgaata 60
gagtctcttg ttttttcgtc tacgggacta tcaccctgta tcgttctact ttccagaagt 120
attcgactaa aacttaagat cccatgttat cgaccctaca accccacatt aaaaatgtgg 180
tttggtcttc tcccctttcg ctcgccgcta cacaggga 218

<210> 2
<211> 221
<212> DNA
<213> Chlamydophila

<400> 2
gacagtggtc tccccagatt cavactaggt ttcacgtgtc tagccctact caggtatcga 60
atagagtctc ttgtttttwc gtctacggga ctatcaccct gtatcgttct actttccaga 120
agtattcgac taaaacttaa gatcccatgt tatcgaccct acaaccccac attaaaaatg 180
tggtttggtc ttctcccctt cgctcgccg ctacacaggg a 221

<210> 3
<211> 224
<212> DNA
<213> Chlamydophila

<400> 3
tgagagtggt ctccccagat tcagactagg tttcacgtgt ctagccctac tcaggtatcg 60
aatagagtct cttgtttttt cgtctacggg actaacaccc tgtatcgttc tactttccag 120
aagtattcga ctaaaactta agatcccatg ttatcgaccc tacaacccca cattaaaaat 180
gtggtttggt cttctcccct tttcgctcgk ccgytatcac aggg 224

<210> 4
<211> 221
<212> DNA
<213> Chlamydophila

<400> 4
gadagtggtc tccccagatt cadactaggt ttcacgtgtc tagccctact caggtatcga 60

Page 1

```
atagagtctc ttgttttttc gtctacggga ctatcaccct gtatcgttct actttycaga 120
agtattcgac taawwcttaa gatcccatgt tatcgaccct acaaccccac attwwwwatg 180
tggtttggtc ttctcccctt tygctcgccg ctacacaggg a                     221
```

<210> 5
<211> 217
<212> DNA
<213> Chlamydophila

<400> 5
```
tgagagtggt ctccccagat tcagactagg tktcacgtgt ctagccctac tcaggtatcg 60
aatagagtct cttgttttkt cgtctacggg actatcaccc tgtatcgttc tactttccca 120
gaagtattcg actaaaahct taagatcccc atgttatcga ccctacaacc cccacatdaa 180
aaatgtggtt tggtcttctc ccctttcgct cgccgct                          217
```

<210> 6
<211> 221
<212> DNA
<213> Chlamydophila

<400> 6
```
gabagtggtc tccccagatt cagactaggt ttcacgtgtc tagccctact caggtatcga 60
atagagtctc ttgttttttc gtctacggga ctatcaccct gtatcgttct actttccaga 120
agtattcgac taaaacttaa gatcccatgt tatcgaccct acaaccccac attaaaaatg 180
tggtttggtc ttctcccctt tcgctcgccg ctactcaggg a                     221
```

<210> 7
<211> 220
<212> DNA
<213> Chlamydophila

<400> 7
```
tgagagtggt ctccccagat tcagtcaaaa tatcacgtgt tccgacctac tcaggatact 60
attagtatta ttgagaatbt taattacagg agtatcacct tctatgctct agtttccaac 120
taattcatct attctcttta attacacatt atagtcctac aaccccmaa tgcaagcatt 180
gggtttgtcc taatcccagt tcgctcgccg ctacacaggg                       220
```

<210> 8
<211> 220
<212> DNA
<213> Chlamydophila

<220>
<221> misc_feature
<222> 174
<223> n = A,T,C or G

<400> 8
```
tgagagtggt ctccccagat tcagactagg tttcacgtgt ctagccctac tcaggtatcg 60
aatagagtct cttgtttttt tgtctacggg actatcaccc tgtatcgttc tactttccag 120
aagtattcga ctaaaactta agatcccatg ttatcgaccc tacaacccca catnaaaaat 180
gtggtttggt cttctcccct ttcgctcgcc gctacacagg                       220
```

<210> 9
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 9
```
gatgccttgg cattgatagg cgatgaag                                     28
```

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer

<400> 10
tggctcatca tgcaaaaggc a   21